

Title (en)

SYSTEM AND METHOD FOR TREATING DUST IN GAS EXTRACTED FROM CEMENT KILN COMBUSTION GAS

Title (de)

SYSTEM UND VERFAHREN ZUR BEHANDLUNG VON STAUB IN AUS ZEMENTOFENVERBRENNUNGSGAS EXTRAHIERTEM STAUB

Title (fr)

SYSTÈME ET PROCÉDÉ POUR TRAITER LA POUSSIÈRE DANS LE GAZ EXTRAIT DU GAZ DE COMBUSTION DE FOUR À CIMENT

Publication

**EP 1795509 B1 20140618 (EN)**

Application

**EP 05785528 A 20050920**

Priority

- JP 2005017258 W 20050920
- JP 2004283347 A 20040929

Abstract (en)

[origin: EP1795509A1] [Problems] To efficiently remove lead from dust contained in extracted cement kiln combustion gas while reducing facility and running costs. [Means for Solving Problems] A treatment system 1 comprising a probe 3 for extracting a part of combustion gas, while cooling it, from a kiln exhaust gas passage, which runs from an inlet end of a cement kiln to a bottom cyclone; a first classifier 5 for separating coarse powder from dust contained in the combustion gas extracted; a dust collector 7 for collecting dust from the extracted gas containing fine powder discharged from the first classifier 5; and a second classifier 8 for dividing dust discharged from the dust collector 7 into fine powder and coarse powder, and others. Since more lead is distributed on the fine powder side classified by the second classifier 8, lead can efficiently be removed without using chemicals and the like. The fine powder classified by the classifier 8 may be desalted by washing; high-lead-level cake obtained after the washing can be recycled; or salt water can be added to a cement mill. The coarse powder may be added to a cement grinding process or returned to cement material grinding process after the desaltation through washing.

IPC 8 full level

**C04B 7/43** (2006.01); **C04B 7/60** (2006.01); **F27B 7/42** (2006.01); **F27D 17/00** (2006.01)

CPC (source: EP KR US)

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Citation (examination)

THOMAS SPIRO: "Environmental Science in Perspective", 1980, STATE UNIVERSITY OF NEW YORK PRESS, Albany, ISBN: 0873954289, pages: 202

Cited by

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